

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/02492

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 G02B5/28 G02B5/20 C03C17/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 G02B C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 4 408 825 A (STELMACK LAWRENCE A) 11 October 1983 see column 2, line 9 - line 66; figure 1 ---	1-6,8,9, 21,30,31
X	EP 0 080 182 A (TOYODA CHUO KENKYUSHO KK) 1 June 1983 see page 6 - page 8; example 1 ---	1-5,15, 21,24, 30,34
X	US 4 320 155 A (GILLERY F HOWARD) 16 March 1982 see example 1 ---	1
X	US 4 590 118 A (YATABE TOSHIAKI ET AL) 20 May 1986 see column 2, line 10 - line 29 ---	30
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

A document member of the same patent family

Date of the actual completion of the international search

17 December 1997

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 214 530 A (COOMBS PAUL G ET AL) 25 May 1993 cited in the application see column 2, line 24 - column 3, line 35 ---	1,20
A	US 5 437 931 A (TSAI RUNG-YWAN ET ALA) 1 August 1995 see column 1 - column 4; figures 1-3 ---	1,30,40, 42
A	PATENT ABSTRACTS OF JAPAN vol. 014, no. 397 (C-0752), 28 August 1990 & JP 02 149448 A (NIPPON SHEET GLASS CO LTD), 8 June 1990, see abstract ---	15,24
A	US 4 393 095 A (GREENBERG CHARLES B) 12 July 1983 see example 3 -----	16-18, 35-37

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 97/02492

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4408825 A	11-10-83	NONE	
EP 0080182 A	01-06-83	JP 1714919 C	27-11-92
		JP 3070202 B	06-11-91
		JP 58090604 A	30-05-83
		US 4504109 A	12-03-85
US 4320155 A	16-03-82	US 4235048 A	25-11-80
US 4590118 A	20-05-86	JP 1676009 C	26-06-92
		JP 3039281 B	13-06-91
		JP 59151108 A	29-08-84
		JP 1603005 C	29-03-91
		JP 2026854 B	13-06-90
		JP 60127152 A	06-07-85
US 5214530 A	25-05-93	CA 2048564 A	17-02-92
		EP 0472371 A	26-02-92
		EP 0786676 A	30-07-97
		JP 6118229 A	28-04-94
US 5437931 A	01-08-95	NONE	
US 4393095 A	12-07-83	AU 546405 B	29-08-85
		AU 1085983 A	11-08-83
		AU 559271 B	05-03-87
		AU 4481785 A	31-10-85
		BE 895752 A	01-08-83
		CA 1198019 A	17-12-85
		DE 3303154 A	11-08-83
		DE 3347918 A	15-05-85
		FR 2520727 A	05-08-83
		GB 2114965 A,B	01-09-83
		JP 1430317 C	09-03-88
		JP 58135154 A	11-08-83
		JP 62038313 B	17-08-87
		JP 62256742 A	09-11-87
		JP 62256743 A	09-11-87
		SE 461980 B	23-04-90
		SE 8300497 A	02-08-83

Information on parent family members

PCT/GB 97/02492

Form PCT/ISA/210 (patent family annex) (July 1992)